

**SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR  
DETERMINING PARAMETERS FOR CHEMICAL SYNTHESIS AND FOR  
SUPPLYING THE REAGENTS, EQUIPMENT AND/OR CHEMICALS  
SYNTHESIZED THEREBY**

**Abstract of the Disclosure**

In response to a user query that identifies a target chemical, a listing is displayed of reagent chemicals that are used to synthesize the target chemical. A listing also is displayed of equipment that is used to synthesize the target chemical. A listing also is displayed of a procedure that is used to synthesize the target chemical by reacting the reagent chemicals in the equipment according to the procedure. User input is accepted to electronically order the reagent chemicals that are used to synthesize the target chemical, the target chemical itself, and/or the equipment that is used to synthesize the target chemical. In response, a transaction is performed to electronically order the reagent chemicals that are used to synthesize the target chemical, the equipment that is used to synthesize the target chemical and/or the target chemical itself. Prior to accepting a user identification of a target chemical, a database is populated with target chemicals, corresponding listings of reagent chemicals, corresponding listings of equipment, and corresponding listings of procedures. The database then is searched in response to a user identification of a target chemical.